

DFDL4S Version 1.4.0 - Release Notes

1. NEW RELEASE DESCRIPTION

1.1 Software and Hardware Requirements

The DFDL4S v1.4.0 Java library is available for the following computer platforms:

- Windows XP / Vista / 7 (32-bit)
- Mac OS X Intel 10.5 or above (64-bit)
- Linux (64-bit)

The DFDL4S library requires:

- Version 1.8 or higher of the Java Development kit
- 50+ Mb of hard disk space
- 2 GB RAM

1.2 Installation Packages

A DFDL4S distribution package consists of one single archive (multi-platform):

`dfdl4s_release_1_4_0.zip`

1.3 Installation Hints

In order to install DFDL4S, the distribution package needs to be unzipped into the selected installation directory.

Please check Section 3.3 of the DFDL4S developer manual for further information about the installation steps.

2. NEW FUNCTIONALITIES

This new release provides the following new functionalities with respect to v1.3.0:

- DFDL4S-AN-011/012: Reviewed compliance with DFDL specification
 - Implemented a check within DFDL4S parser of the compatibility between the types and the lengths.
 - Ensured that all supported properties which have a default value in the `dfdl:format` can be correctly overridden in a specific element.
 - Updated the parser so that a warning message is issued when a property contains a value which is not supported.
 - All implicit properties have been made explicit in the schemas and the parser has been updated to use this definition
 - Replaced the use of `length()` operator by `dfdl:contentLength()` functions
 - Accepted value `'fn:true()'` as boolean expression `<dfdl:discriminator test="{fn:true()}"/>`
- DFDL4S-AN-014: Add to delivery package a JAVA example to create an ISP file from scratch

3. CLOSED SPRS

N/A

4. ADDITIONAL COMMENTS AND KNOWN PROBLEMS

4.1 Mission Support

The DFDL4S distribution package already includes example mission configuration files (JAR archive containing XML files and schemas).

The latest version of the mission configuration files for all supported missions are available in the "Mission Files" section of the S2G website

(<http://eop-cfi.esa.int/index.php/applications/s2g-data-viewer/mission-files>)

The schema files in the website are compatible with the latest versions of the S2G application and the DFDL4S library.

4.2 Known Problems

N/A

5. REPORTING PROBLEMS

For any problems or questions please send an e-mail to the DFDL4S helpdesk:

dfd4s@eopp.esa.int